

## EPARTMENT OF COMMERCE Patent and Trademark Office

COMMISSIONER OF PATENTS AND TRADEMANKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	ATTORNEY DOCKET NO.	
08/479,999	06/28/94	BRAKEL		C ÉNZ	-47(C)	
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	— HM31/03		-	EX	RAMINER	
ENZO THERAPEUTICS INC			1	MARSCHEL, A		
ENZO BIOCHEM	INC					
527 MADISON A	AVENUE 9TH	FLOOR		ART UNIT	PAPER NUMBER	
NEW YORK NY 1	10022			1634		

DATE MAILED:03/31/98

Please And below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patonto and Tradomerics

## Office Action Summary

Application No. 08/479,999

Applicant(s)

Brakel et al.

Examiner

Marschel, Ardin

Group Art Unit 1634



X Responsive to communication(s) filed on Feb 12, 1998	·
X This action is <b>FINAL</b> .	
☐ Since this application is in condition for allowance except in accordance with the practice under <i>Ex parte Quayle</i> , 1	
A shortened statutory period for response to this action is set is longer, from the mailing date of this communication. Failulapplication to become abandoned. (35 U.S.C. § 133). Exte 37 CFR 1.136(a).	are to respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration
Claim(s)	is/are allowed.
	is/are rejected.
☐ Claim(s)	is/are objected to.
	are subject to restriction or election requirement.
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drav	ving Review, PTO-948.
☐ The drawing(s) filed on is/are ob	jected to by the Examiner.
☐ The proposed drawing correction, filed on	is Dapproved Ddisapproved.
$\square$ The specification is objected to by the Examiner.	
$\square$ The oath or declaration is objected to by the Examiner	·
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign prior	
☐ All ☐ Some* ☐ None of the CERTIFIED copie	s of the priority documents have been
received.	No. and and
<ul> <li>received in Application No. (Series Code/Serial I</li> <li>received in this national stage application from the series of the</li></ul>	
*Certified copies not received:	the international bureau (i of Naie 17.2(a)).
☐ Acknowledgement is made of a claim for domestic pri	iority under 35 U.S.C. § 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Pape	r No(s)
☐ Interview Summary, PTO-413	
☐ Notice of Draftsperson's Patent Drawing Review, PTO	ı <del>-948</del>
☐ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION O	ON THE FOLLOWING PAGES

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The art unit designated for this application has changed.

Applicant(s) are hereby informed that future correspondence should be directed to Art Unit 1634.

Since this application is eligible for the transitional procedure of 37 CFR 1.129(a), and the fee set forth in 37 CFR 1.17(r) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.129(a).

Applicants' have not set forth any new arguments against the rejections given in the final office action, mailed either 8/5/97 or 3/3/93, in the parent application serial number 07/446,235; that were beyond those already considered and deemed non-persuasive in the Advisory Action, mailed 10/8/93, in said parent application. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections are reiterated from that office action. They constitute the complete set presently being applied to the instant application.

If applicant desires priority under 35 U.S.C. § 120 based upon a previously filed copending application, specific reference to the earlier filed application must be made in the instant application. It is noted that this appears as the first sentence of the specification following the title. The status of non-provisional application(s) (whether patented or abandoned) should also be included. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 8, 12-14, 19, and 42-50 are rejected under 35 U.S.C. § 102(b) as being anticipated by Miller et al.(1985).

Miller et al. discloses methyl phosphonate linked antisense oligos and their use in inhibition as antisense oligomers which reads on the instant claims. It is noted that the methyl phosphonates of the references are phosphodiesters in that they link between nucleotide residues via a set of esters (diesters) and contain phosphate and are thus included in the generic phosphodiester language of the instant claims regarding internal internucleoside linkages.

Claims 1-4, 12-14, and 42-50 are rejected under 35 U.S.C. § 102(b) as being anticipated by Stein et al.(1988).

Similar to the above rejection based on Miller et al., Stein et al. discloses phosphorothicate linkage modified oligomers for antisense usage but also includes oligomers wherein some of the linkages are of the natural type of phosphodiester.

The following is a quotation of 35 U.S.C. § 103(a) which

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forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103(a).

Claims 1-51 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Walder et al.(1988) in view of Miller et al.(4,469,863) and Inoue et al.(1988).

This rejection is reiterated as given in the office action, mailed 6/5/92, as being sufficiently and accurately set forth therein.

No claim is allowed.

This is a 37 CFR 1.129(a) filing. All claims are drawn to

Serial No. 08/479,999

the same invention claimed in the earlier application and could have been finally rejected on the grounds or art of record in the next Office action if they had been entered in the earlier application. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in this case. See M.P.E.P. § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Since the fee set forth in 37 CFR 1.17(r) for a first submission subsequent to a final rejection has been previously paid, applicant, under 37 CFR 1.129(a), is entitled to have a second submission entered and considered on the merits if, prior to abandonment, the second submission and the fee set forth in 37 CFR 1.17(r) are filed prior to the filing of an appeal brief under 37 CFR 1.192. Upon the timely filing of a first submission and the appropriate fee for a small entity under 37 CFR 1.17(r), the finality of the previous Office action will be withdrawn. In view of 35 U.S.C. 132, no amendment considered as a result of payment of the fee set forth in 37 CFR 1.17(r) may introduce new

matter into the disclosure of the application.

If applicant has filed multiple proposed amendments which, when entered, would conflict with one another, specific instructions for entry or non-entry of each such amendment should be provided upon payment of any fee under 37 CFR 1.17(r).

Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is (703) 308-4242.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (703) 308-3894. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached on (703) 308-1152.

Any inquiry of a general nature or relating to the status of this application should be directed to the Chemical Matrix receptionist whose telephone number is (703) 308-0196.

March 30, 1998

ARDIN H. MARSCHEL PRIMARY EXAMINER